

₩.

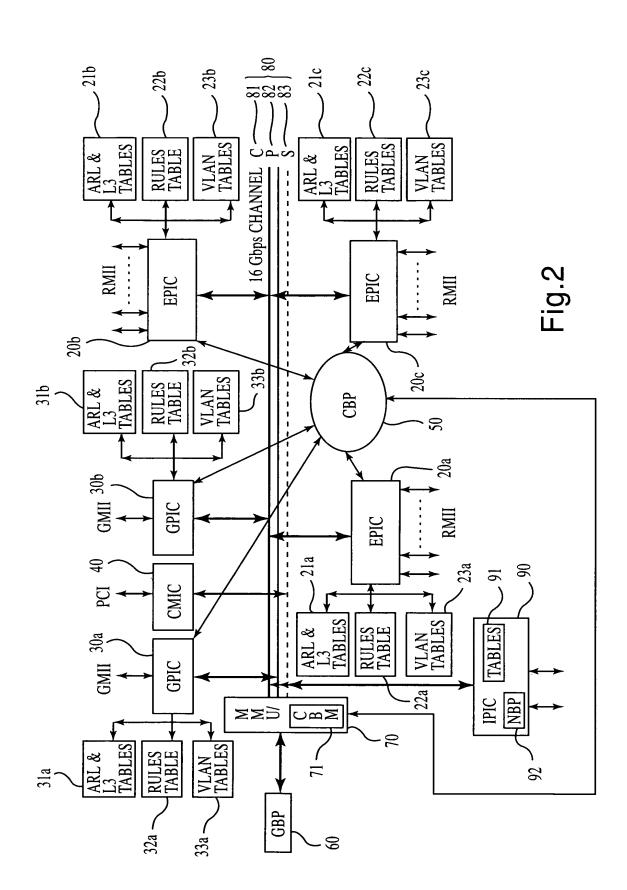
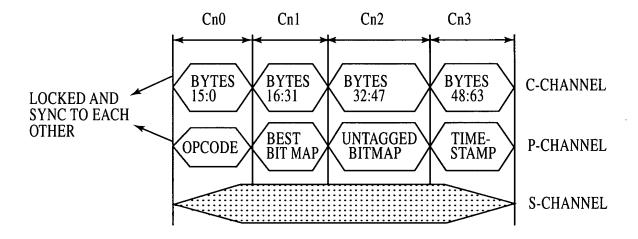


Fig.3



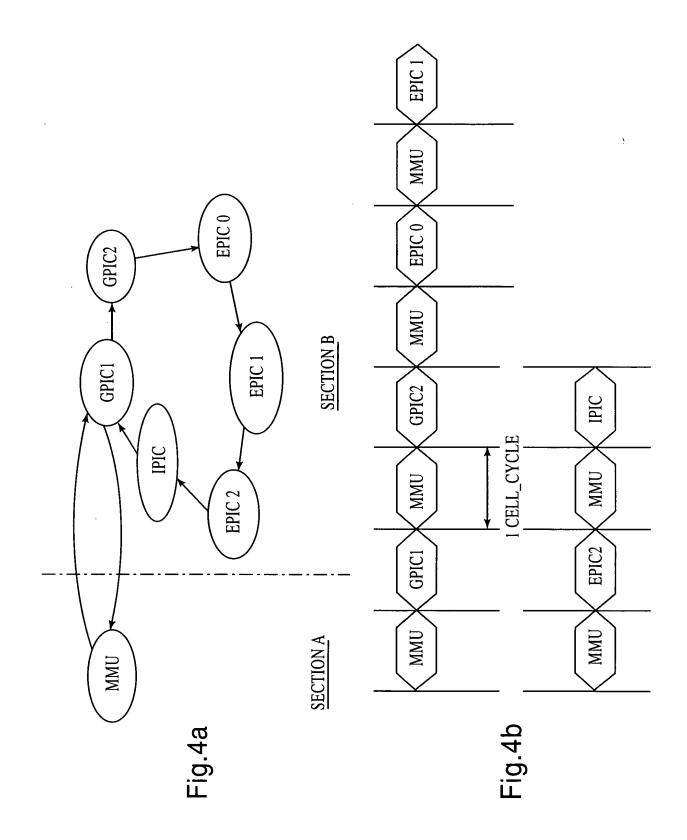


Fig.5

PROTOCOL CHANNEL MESSAGES

* *

Ph	COLO	COLC	HAN	ART IAN	C99AC	JE3												
30	28	26	24	22	20	18	16	14	į.	1	2	10	;	8	6	4	2	0
OPC ODE		RESE RVED		SRC DEST PORT			COS		J	S	Е	CRC	P	0			LEN	
62	60	58_	56	54	52	50	48	46		4	4	42	4)	38	36	34	<u> </u>
						MOI	DULE I	D BI	(T)	MAP								
		1				1					_							
30	28	26	24	22	20	18	16	14		_	2	10		8	6	4	2	
R						Bc	/ Mc P	ORT	Βľ	TMA	P							
		50	5.0	<i>- A</i>	50	50	40	4.0			4	1 40	4/	 .	20	1 26	1 24	1 20 1
62	60	58	56	54	52 ID CIII	50 SCKSIII	48	46)	<u>4</u>	•	42 4T MO	<u>4</u> (38 TI	36	34	32
PF M	NEW IP CHECKSUM M MT-MODID T TGII										עוטו	MOD	DDE c					
							**											
30	28	26	24	22	20	18	16	14	1	1	2	10		8	6	4	2	0
U				UNTAG	GGED 1	PORTB	ITMAP	/ SR	RC	POR	T N	UMBE	R (l	oit0.	5)			
												·		•				
62	60	58	56	54	52	50	48	46)	4	4	42	41	0	38	36	34	32
RS	VD	MATO FILTE				VL	AN ID					SR	C PO	ORT		RE	EMOTE	PORT
		-																
30	28	26	24	22	20	18	16	14	ŀ	1	2	10	(8	6	4	2	0
			CPL	J OPCO	DES							TIMES	STA	MP				
62	60	58	56	54	52	50	48	46		4	4	42	4)	38	36	34	32
R						<u>L3</u>	PORT	BITN	MA	P							_	

Fig.6

SIDE BAND CHANNEL MESSAGES

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
(OPCODE DEST PORT / DESTINATION DEV ID				SRC PORT]	en	E	EC ODE	COS	C		
						A	DDRE	SS							
							DATA	١							

Fig.7

LAYER SEVEN-APPLICATION

LAYER SIX-PRESENTATION

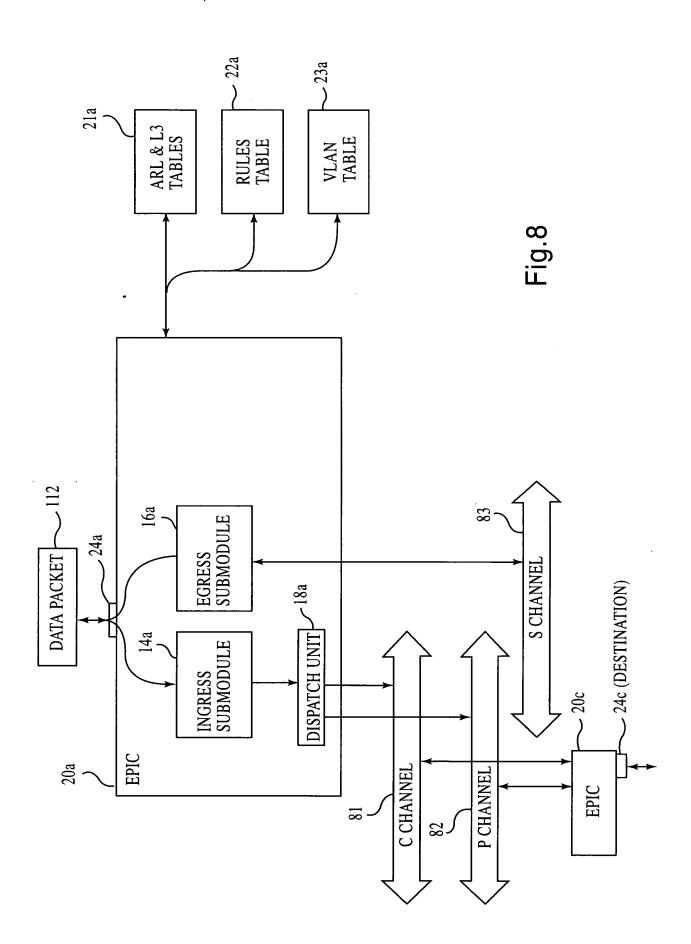
LAYER FIVE-SESSION

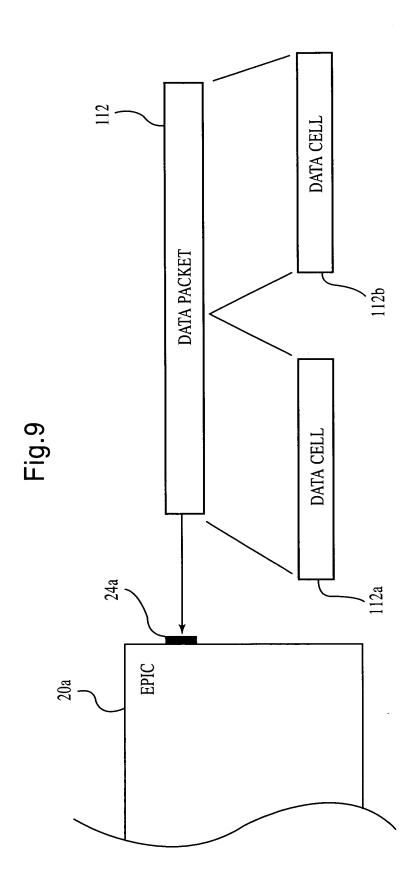
LAYER FOUR-TRANSPORT

LAYER THREE-NETWORK

LAYER TWO-DATA LINK

LAYER ONE-PHYSICAL





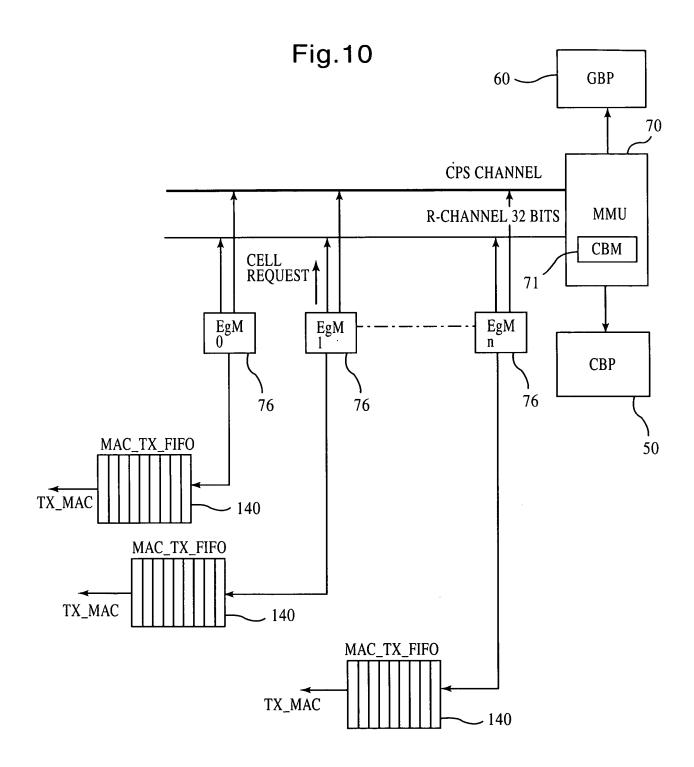
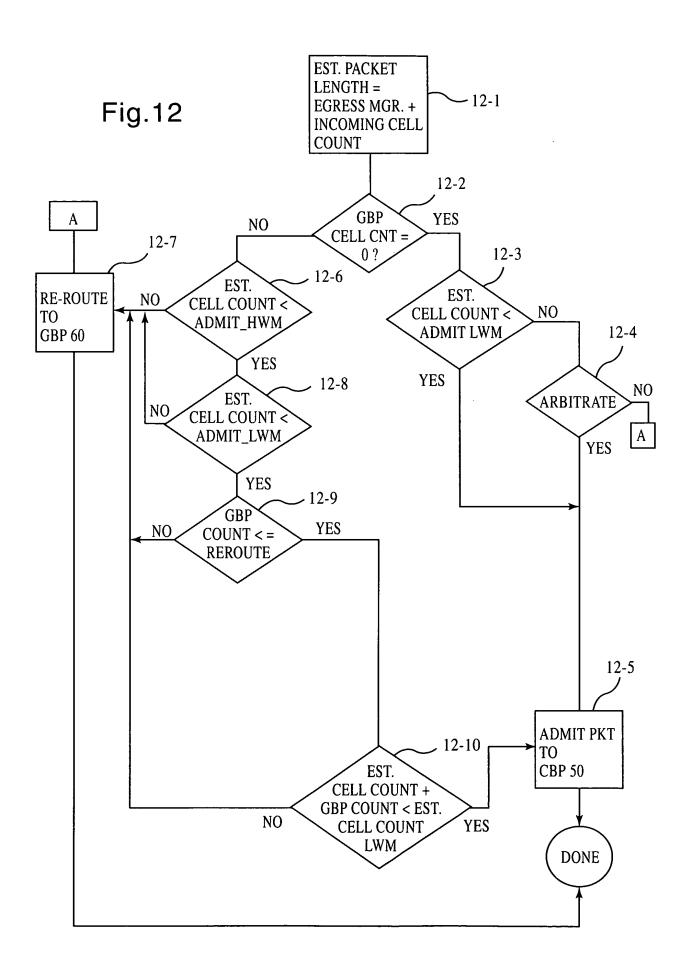


Fig. 11

LINE 0	FC LC BC/MC Cpy_cnt (5b) Cell_length (7b) CRC (2b) NC_header (16b) Src Count (6) IPX IP Time_Stamp (14b) O bits (2b) P NextCellLen(2b) CpuOpcode(4b) Cell_data (0-9B)
LINE 1	Cell_data (10-27) Bytes
LINE 2	Cell_data (28-45) Bytes
LINE 3 -	Cell_data (46-63) Bytes



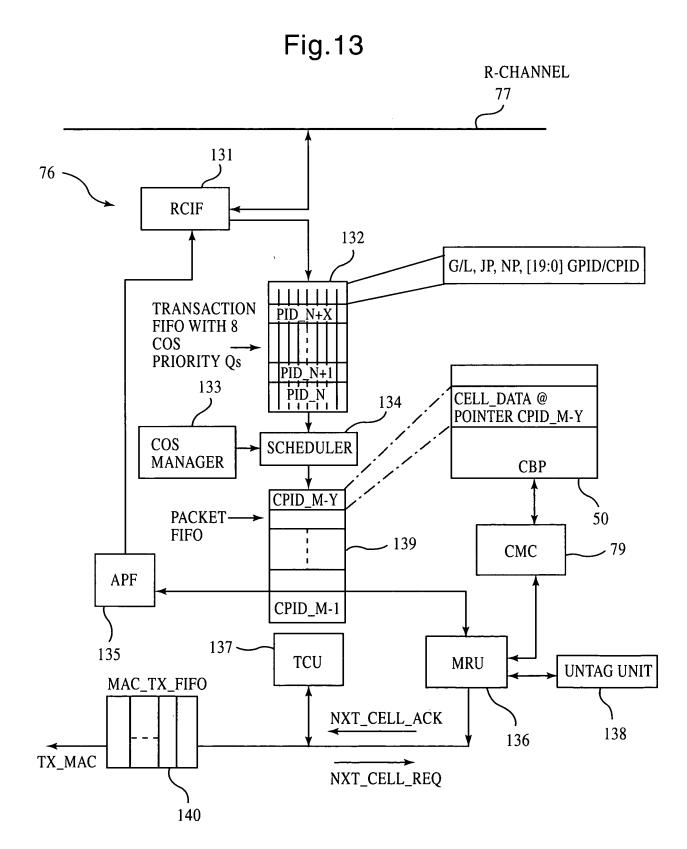


Fig.14

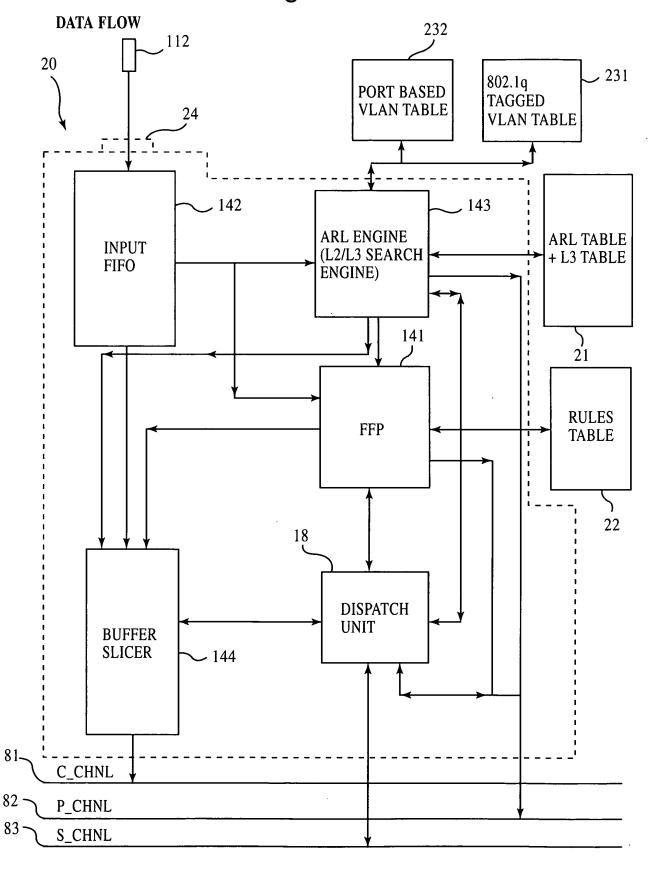
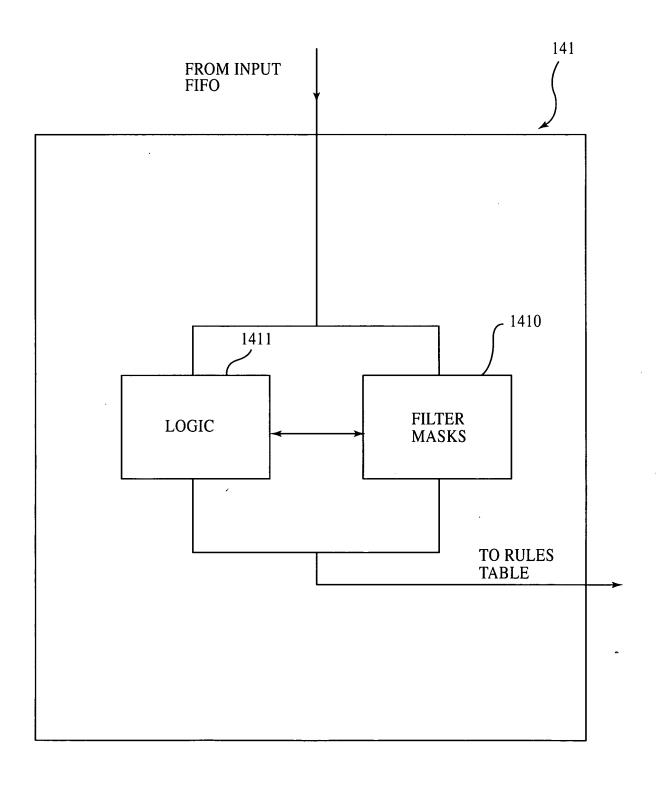
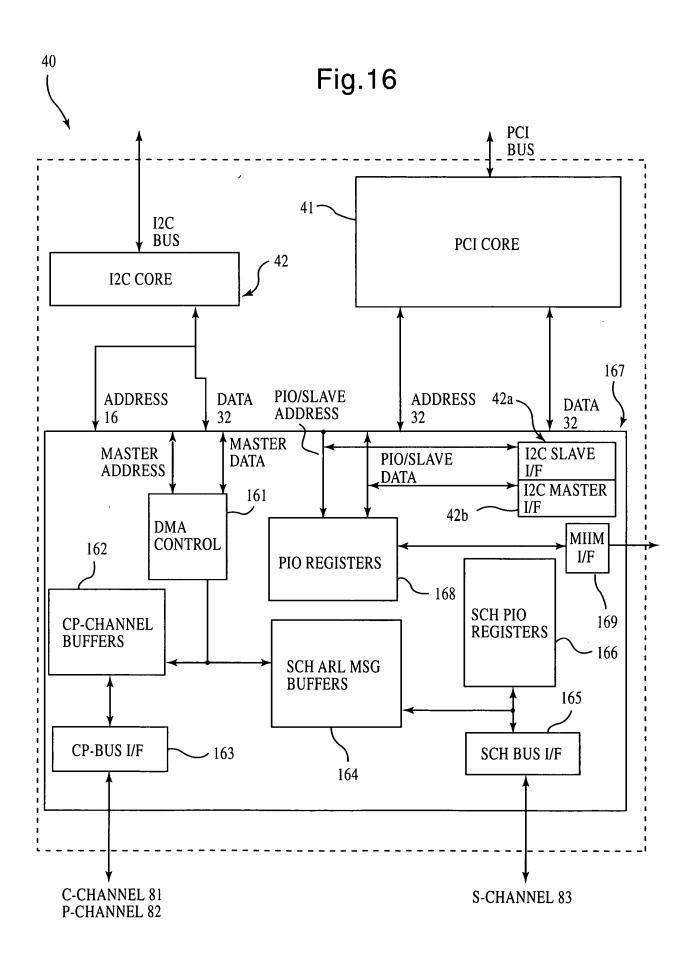
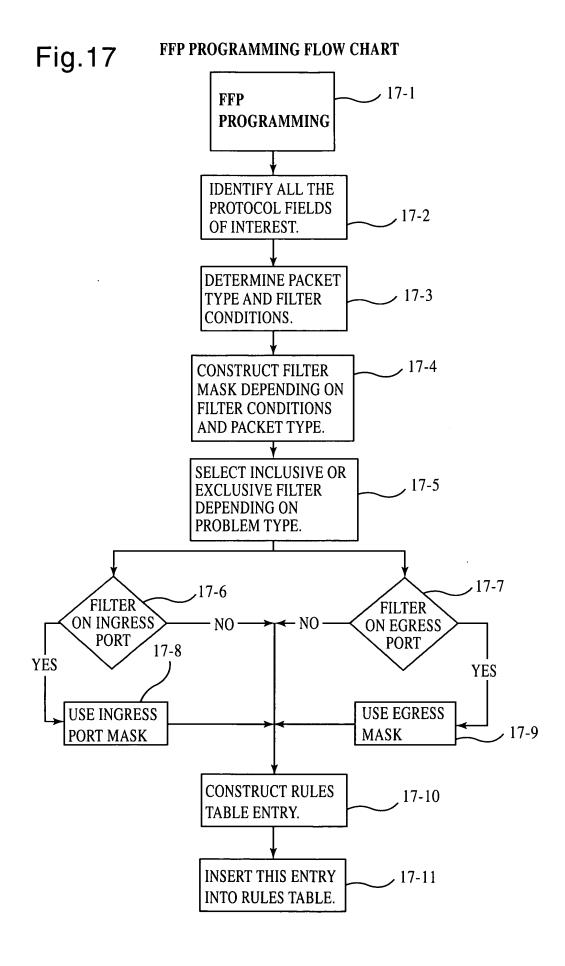
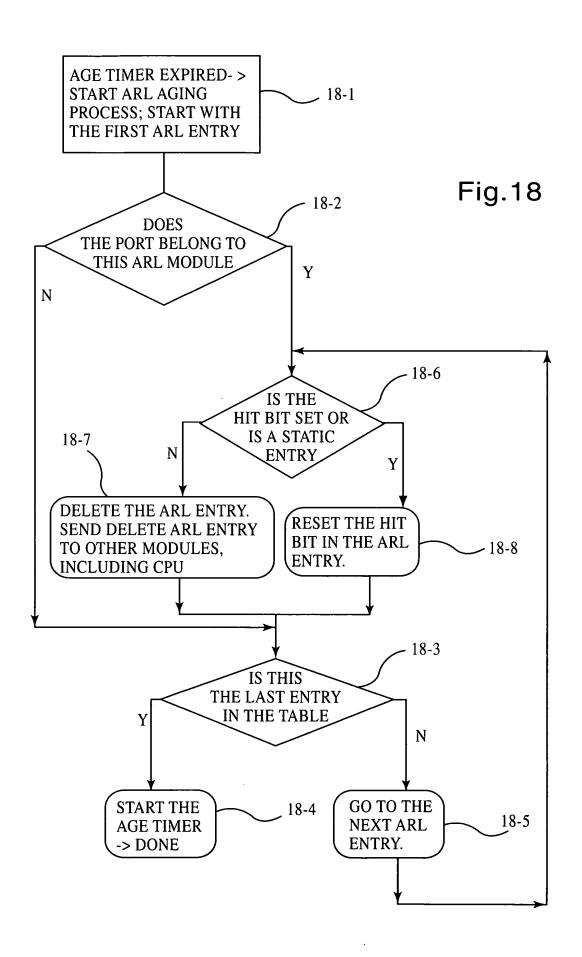


Fig.15









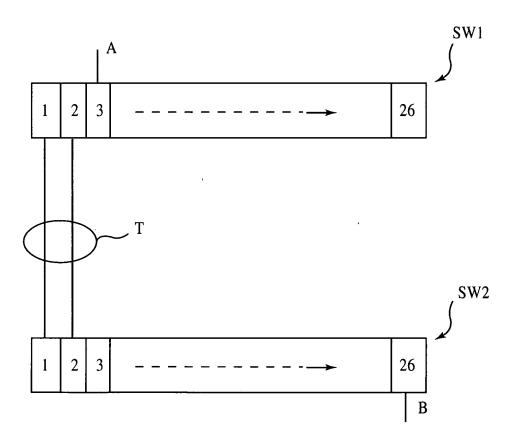


Fig.19

Fig.20

1 19.20	<u></u>					
FIELD	HEADER	SIZE	OFFSET	OFFSET	OFFSET	OFFSET
· ·			FOR	FOR	FOR	FOR
				ETHERNET	SNAP	SNAP
			II UNTAGGED	II TAGGED	UNTAGGED	TAGGED
DESTINATION MAC ADDRESS	MAC	6 BYTES	0	0	0	0
SOURCE MAC ADDRESS	MAC	6 BYTES	6	6	6	6
PROTOCOL TYPE	MAC	2 BYTES	12	16	20	24
DESTINATION TYPE	802.3	1 BYTE	NA	NA	14	18
SOURCE SAP	802.3	1 BYTE	NA	NA	15	19
802.1p PRIORITY	MAC	3 BITS	NA	14	NA	14
VLAN Id	MAC	12 BITS	NA	14+4b	NA	14+4b
TOS PRECEDENCE	IP	3 BITS	15	19	23	27
DIFFERENTIATED SERVICES	IP	6 BITS	15	19	23	27
SOURCE IP ADDRESS	IP	4 BYTES	26	30	34	38
DESTINATION IP ADDRESS	IP	4 BYTES	30	34	38	42
PROTOCOL	IP	1 BYTE	23	27	31	35
SOURCE PORT	TCP/	2 BYTES	34	38	42	46
	UDP					
DESTINATION PORT	TCP/	2 BYTES	36	40	44	48
	UDP					
TCP CONTROL FLAGS	TCP	1 BYTE	47	51	55	59
(FOR ALIGNING ON BYTE				•		
BOUNDARY 2 BITS OF						
RESERVED BITS PRECEDING						
THIS FIELD IS INCLUDED)						
DATA AT OFFSET 1	NA	8 BYTES	DATA	DATA	DATA	DATA
			OFFSET1	OFFSET1	OFFSET1	OFFSET1
			FROM	FROM	FROM	FROM
			START OF	START OF	START OF	START OF
			IP/IPX	IP/IPX	IP/IPX	IP/IPX
	774	0 DVTC	HEADER	HEADER	HEADER	HEADER
DATA AT OFFSET 2	NA	8 BYTES	DATA OFFSET2	DATA OFFSET2	DATA OFFSET2	DATA OFFSET2
			FROM	FROM	FROM	FROM
			START OF	START OF	START OF	START OF
			IP/IPX	IP/IPX	IP/IPX	IP/IPX
			HEADER	HEADER	HEADER	HEADER
DATA AT OFFSET 3	NA	8 BYTES	DATA	DATA	DATA	DATA
			OFFSET3	OFFSET3	OFFSET3	OFFSET3
			FROM	FROM	FROM	FROM
			START OF	START OF	START OF	START OF
			IP/IPX	IP/IPX	IP/IPX	IP/IPX
		0.511===	HEADER	HEADER	HEADER	HEADER
DATA AT OFFSET 4	NA	8 BYTES	DATA	DATA	DATA	DATA
			OFFSET4	OFFSET4	OFFSET4	OFFSET4
			FROM START OF	FROM	FROM- START OF	FROM
			IP/IPX	START OF IP/IPX	IP/IPX	START OF
			HEADER	HEADER	HEADER	HEADER
		<u> </u>	TIDADER	IILADER	HEADER	LILADER

Filter Mask Format:

Filter Enable (1b)	Counter (5b)	Rem Port (1b)	Output Mod (5b)	Output Port (6b)	TOS I			Diff Serv (6b)		02.1p Prior (3b)
NMA Enb (1b)	No Match Action (10b)	Data Offse 4 (7b	t Offset	Data Offset 2 (7b)	Data Offset 1 (7b)	Ingr Port N (6t	A ask	Egres ModId N (5b)		Egress Port Mask (6b)
	Field Mask									

Fig.21a

Field Mask Format:

Dest Mac addr (6B)	Src Mac addr (6B)	Prot type (2B)	Dest SAP (1B)	Src SAP (1B)	802.1 p Prio (3b)	Vlan Id (12b)	TOS Prec (3b)	Diff Serv (6b)	Src IP addr (4B)	Dest IP addr (4B)	Prot IP- (1B)	Src Port (2B)	Dest Port (2B)
t .	TCP Cntr Flags Data 1 (8B)			Data 2 (8B)		Data (8B)			ata 4 8B)				

Fig.21b

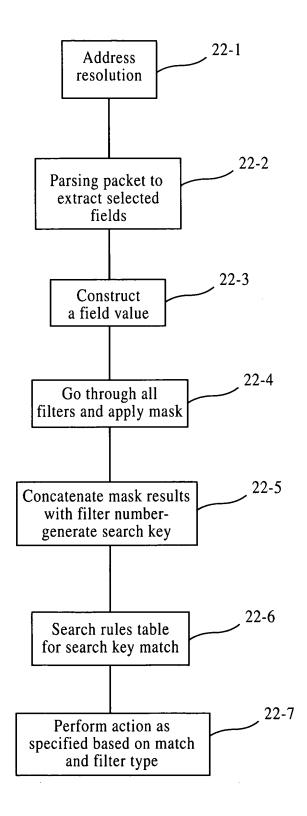


Fig.22

Output Mod (5b)	Output Port (6b)	TOS_P (3b)	Diff Services (6b)	802.1p Priority (3b)	Actio ns (11b)	Filter Select (3b)	Ingress Port (6b)	Egrs Mod (5b)	Egrs Port (6b)	Filter Value (512b)
	Mod	Mod Port	Mod Port P	Mod Port P Services	Mod Port P Services Priority	Mod Port P Services Priority ns	Mod Port P Services Priority ns Select	Mod Port P Services Priority ns Select Port	Mod Port P Services Priority ns Select Port Mod	Mod Port P Services Priority ns Select Port Mod Port

Fig.23

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
	Source IP Address														
						Mult	icast I	P Ado	dress						
r	r L3 Port Bitmap														
•	L3 Module Bitmap														
	Unused											ے ماط	So	urce I	Port
											Thresh	ioia	1		

Fig.24

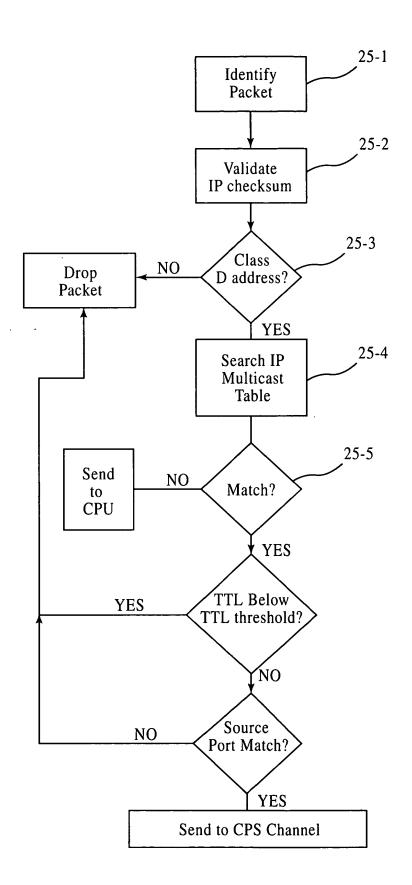
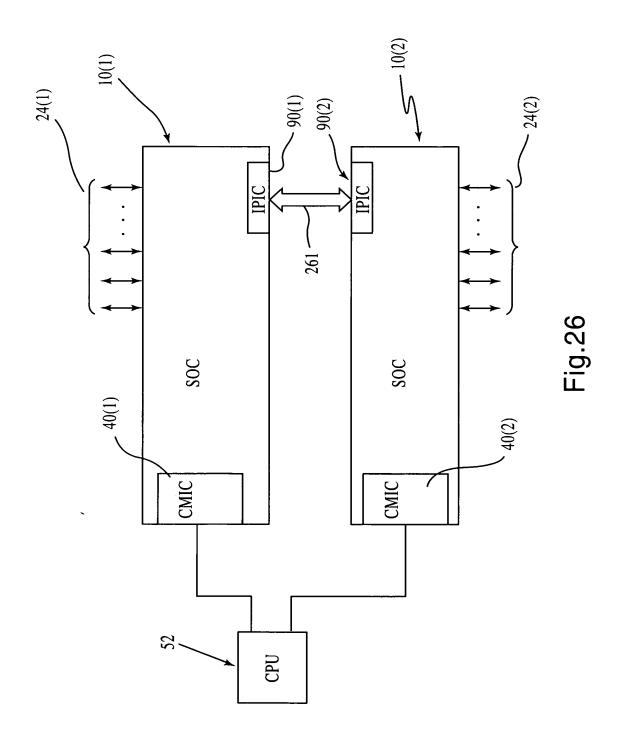
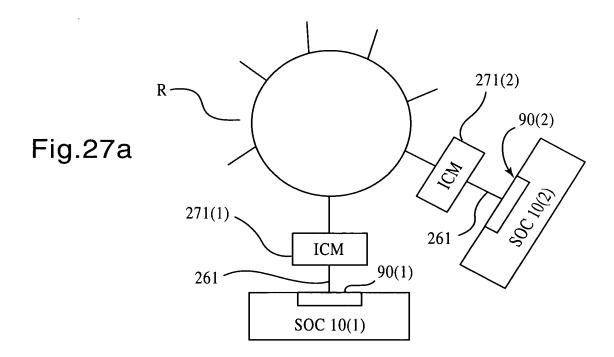
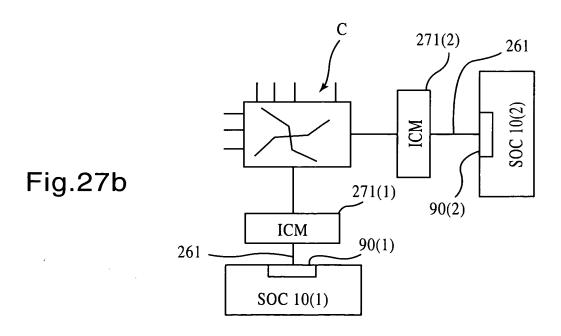


Fig.25







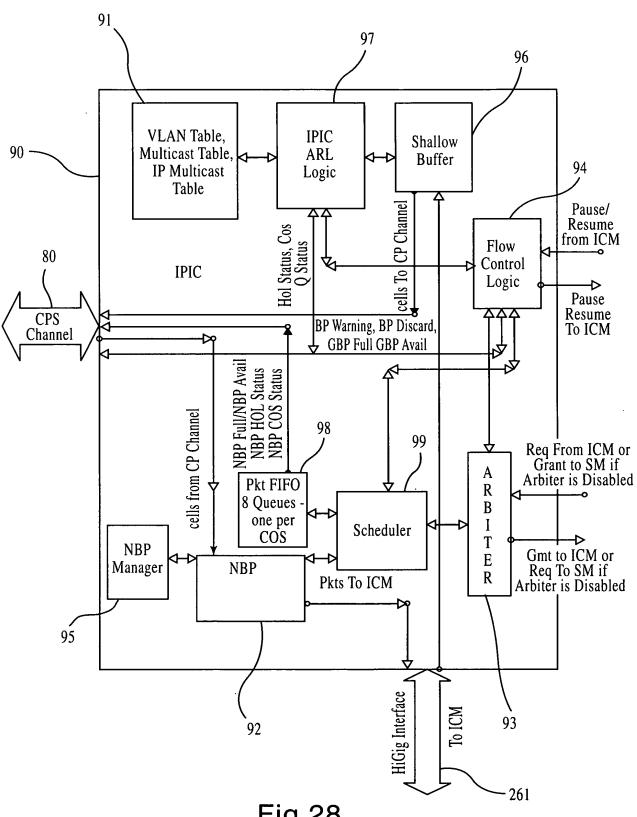
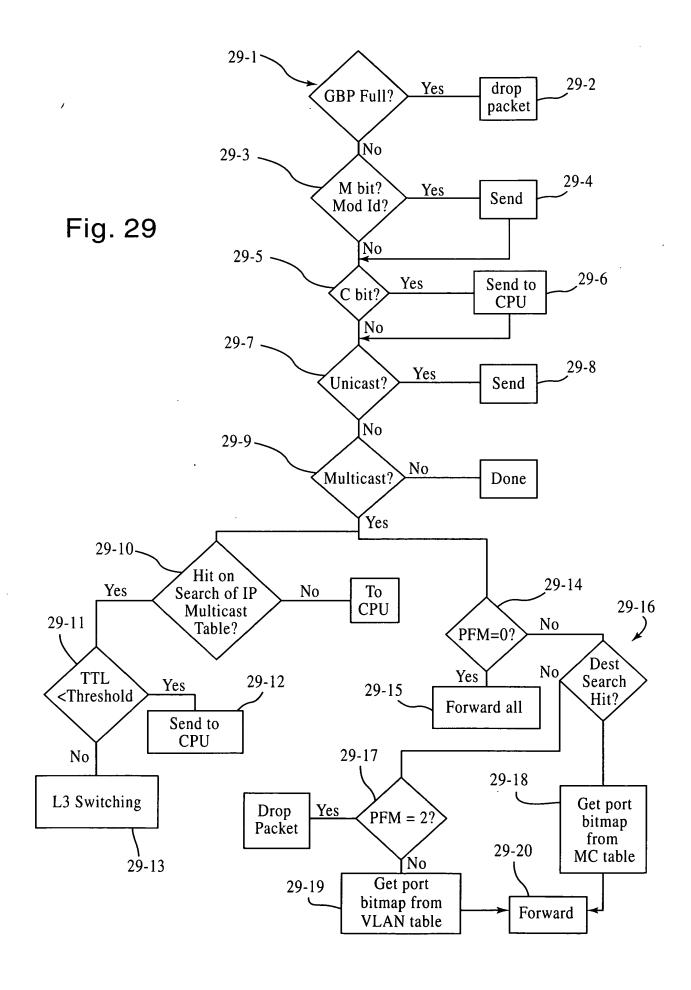


Fig.28



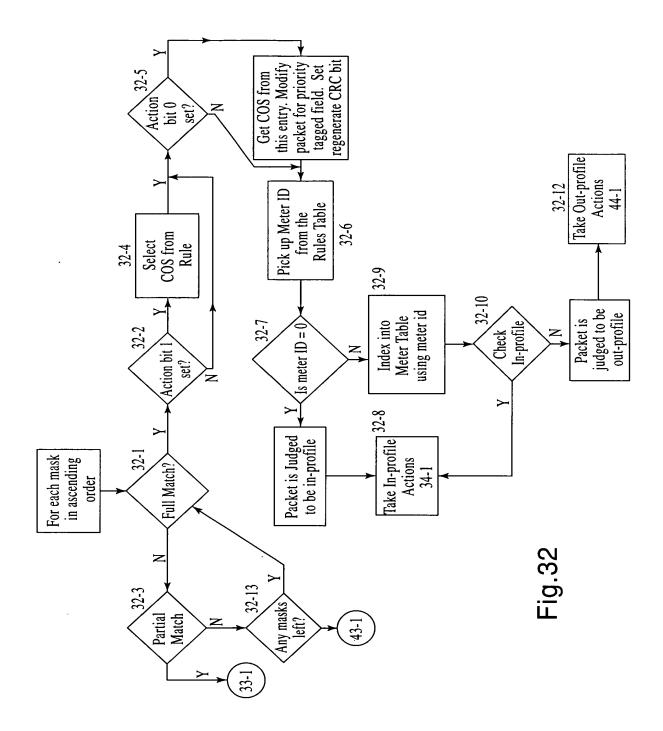
		(2b)	802.1p Priority (3b)	Counter	Rate Counter Threshold (8b)	Rate Discard Threhold (8b)	Point	New COS Queue (3b)	Priority
--	--	------	----------------------------	---------	--------------------------------------	-------------------------------------	-------	-----------------------------	----------

Fig.30

Offset Field	Offset 1	Offset 2	Offset 3	Offset 4
000	0-15	16-31	32-47	48-63
001	8-23	24-39	40-55	56-71
010	16-31	32-47	48-63	64-79
011	24-39	40-55	56-71	72-87
100	32-47	48-63	64-79	80-95
101	40-55	56-71	72-87	88-103
110	48-63	64-79	80-95	96-111
111	56-71	72-87	88-103	104-119

Fig.31

1,47



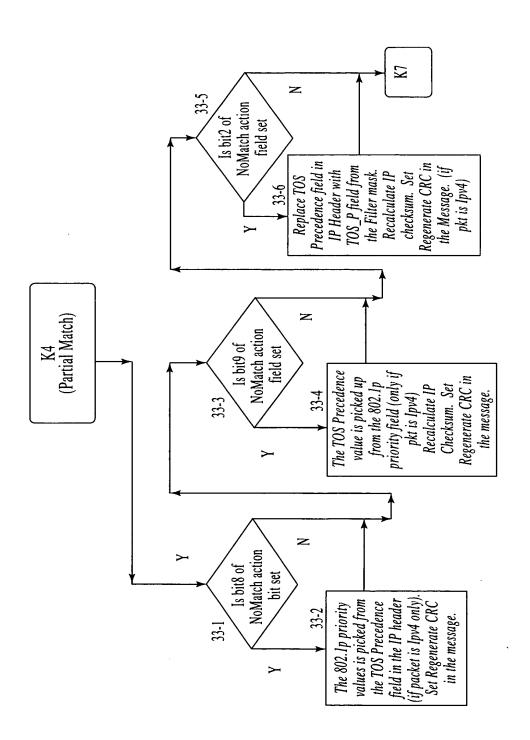


Fig.33

93. ·

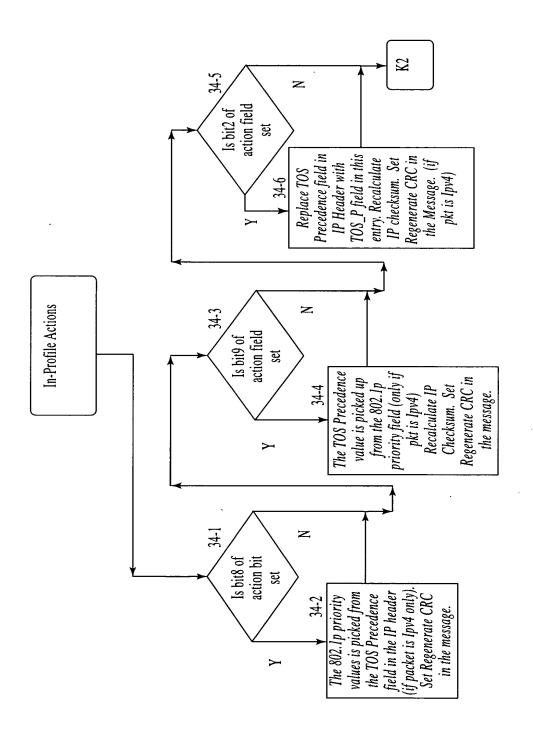


Fig.34

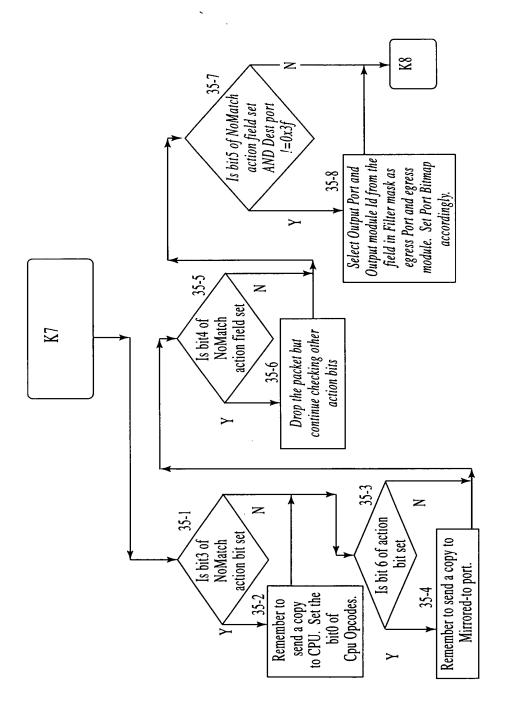


Fig.35

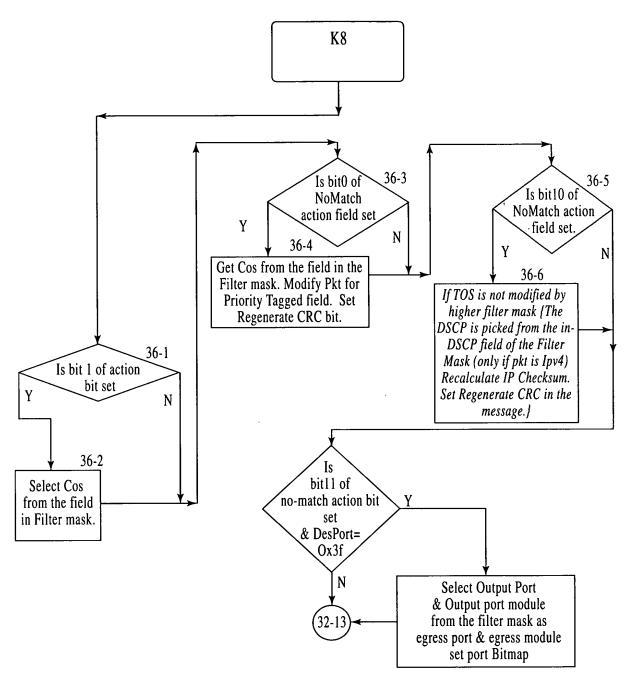
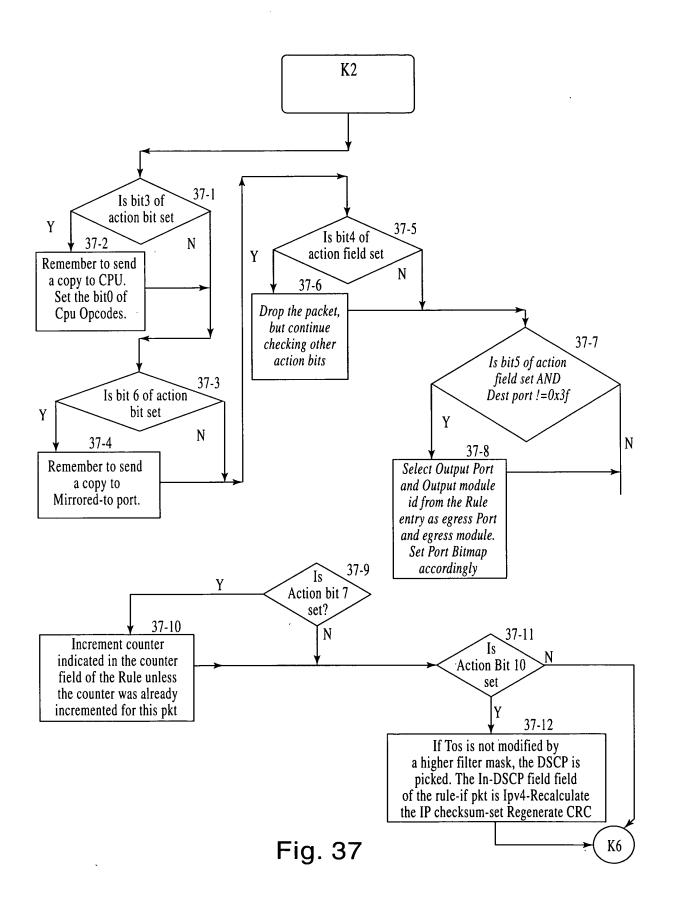


Fig.36



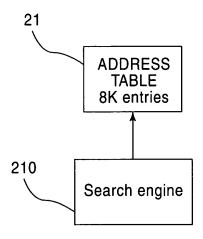


Fig.38

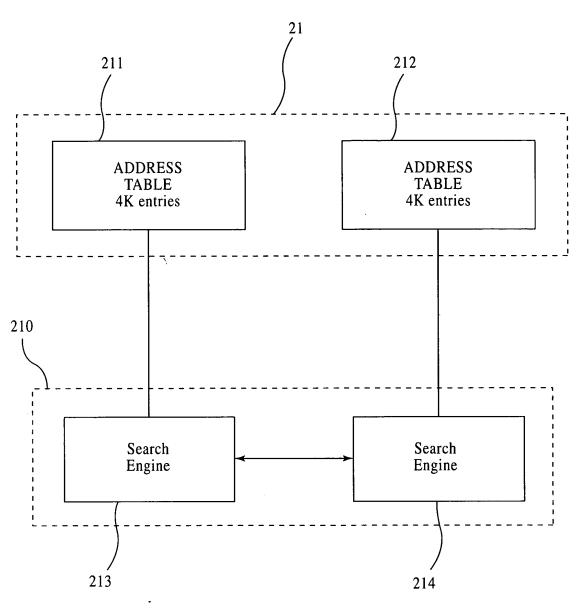


Fig.39

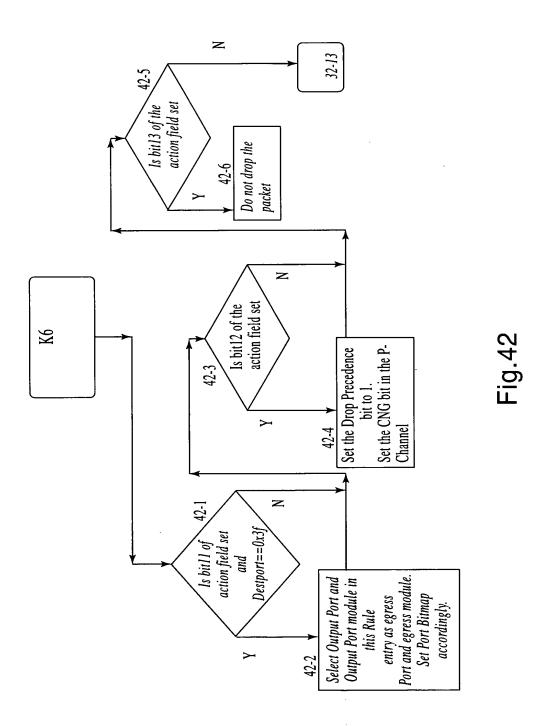
21	Fig.40a			211				212
	address 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	entry AF AC		address 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0	entry AE AC AA Y W U S Q O M K I G E C A	Fig.4	address 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1	entry AF AD AB Z X V T R P N L J H F D B

₂₁ Fig.41a

address	entry
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7	NN MM LL KK JJ GH CCF CCC BE BD BC AB AA Y X V T S R Q N M L K J G E D C B
Ô	B

	21 	1 ·)		212
address 30 28 26 24 22 20 18 16 14	entry MM KK GH CC BD BA AB Y V		address 31 29 27 25 23 21 19 17 15	entry NN LL JJ CF BE BC AC AA X T
10 8 6 4 2	Q M K G D B		11 9 7 5 3 1	R N L J E C

Fig.41b



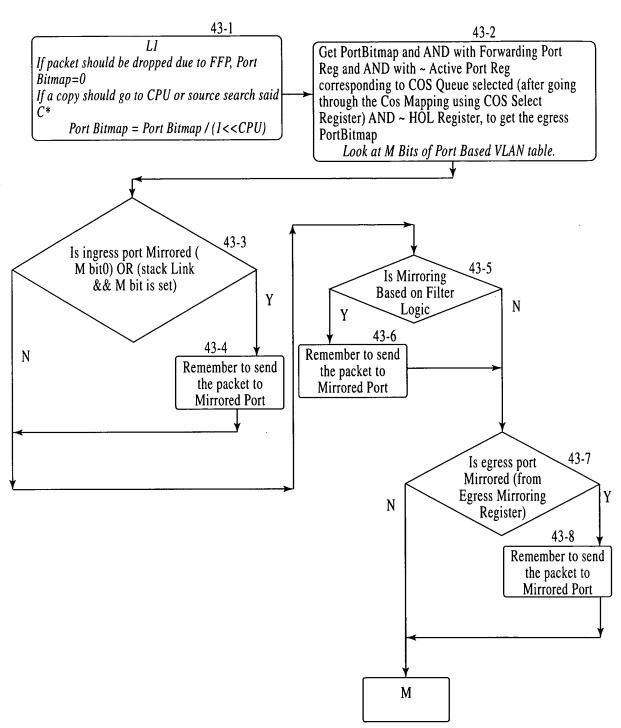


Fig.43

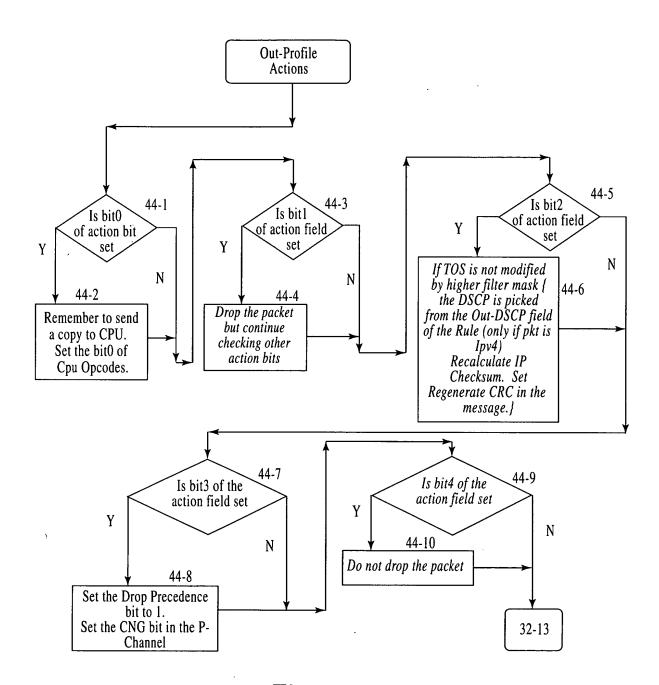


Fig.44

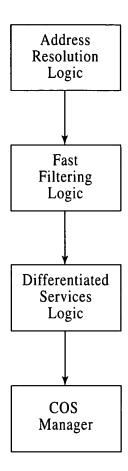


Fig.45

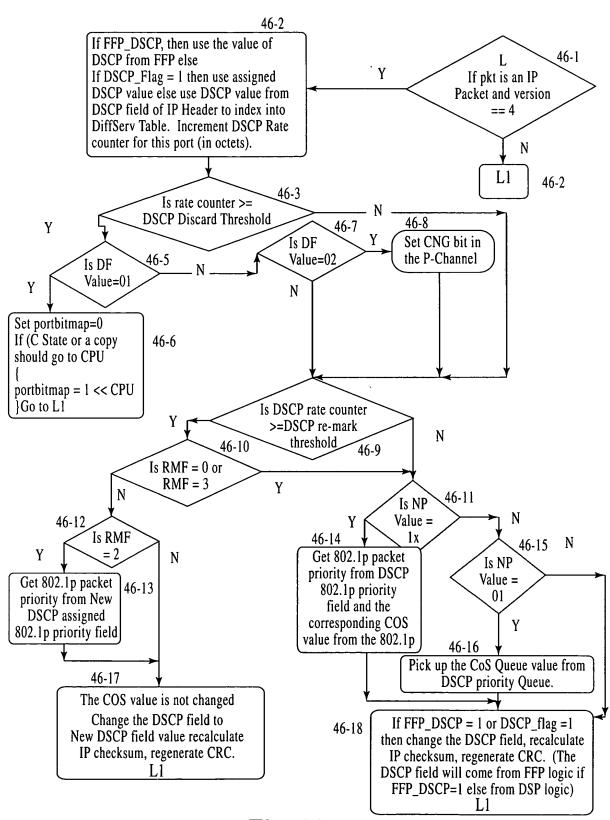


Fig.46

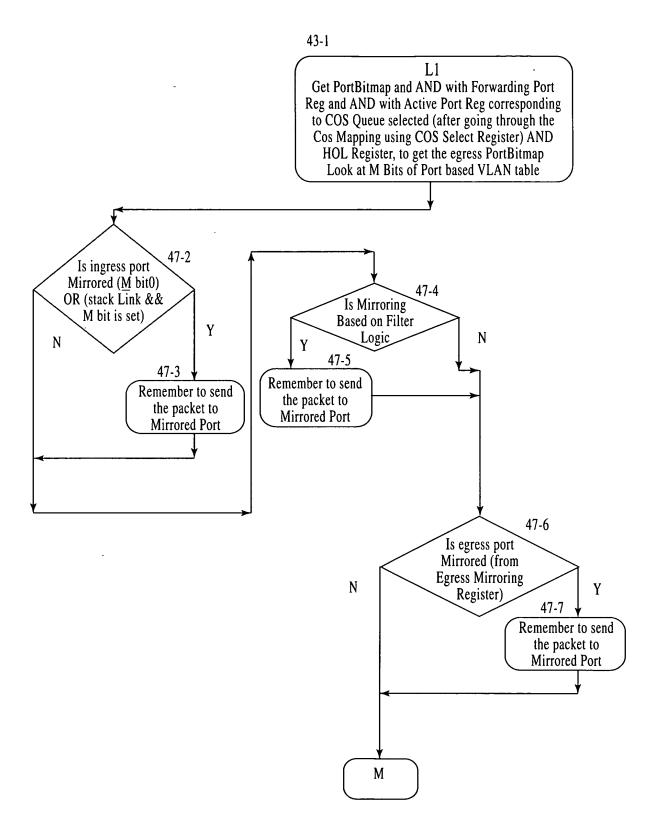
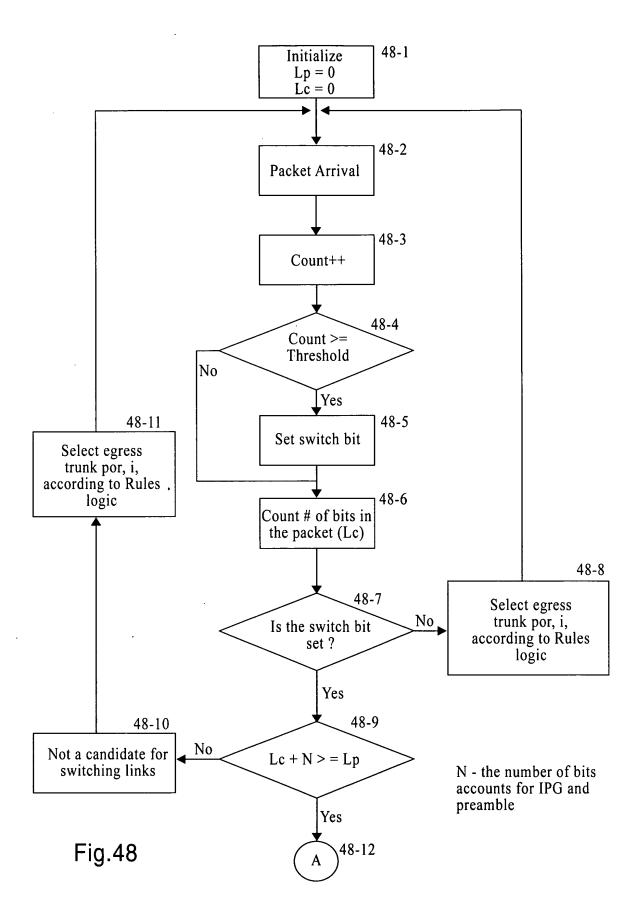
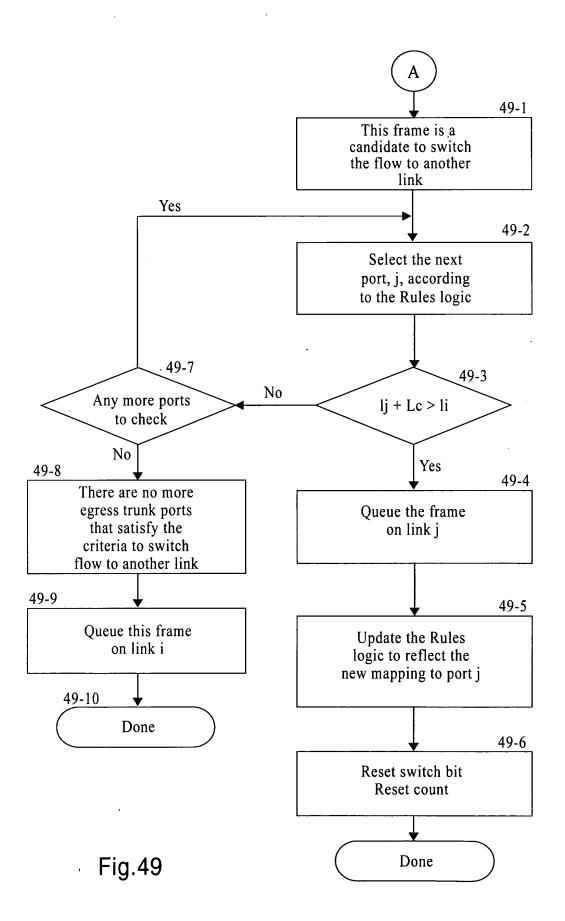


Fig.47





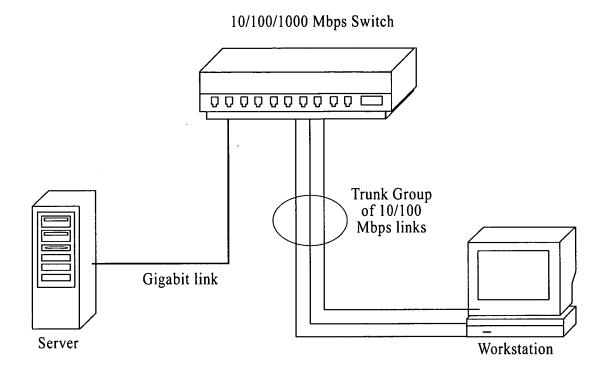


Fig.50

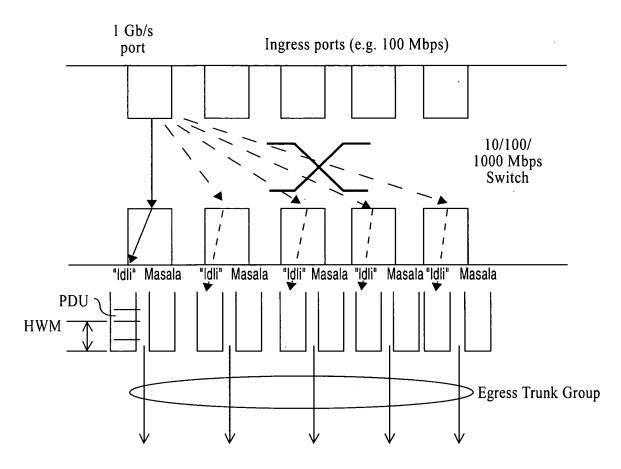


Fig.51

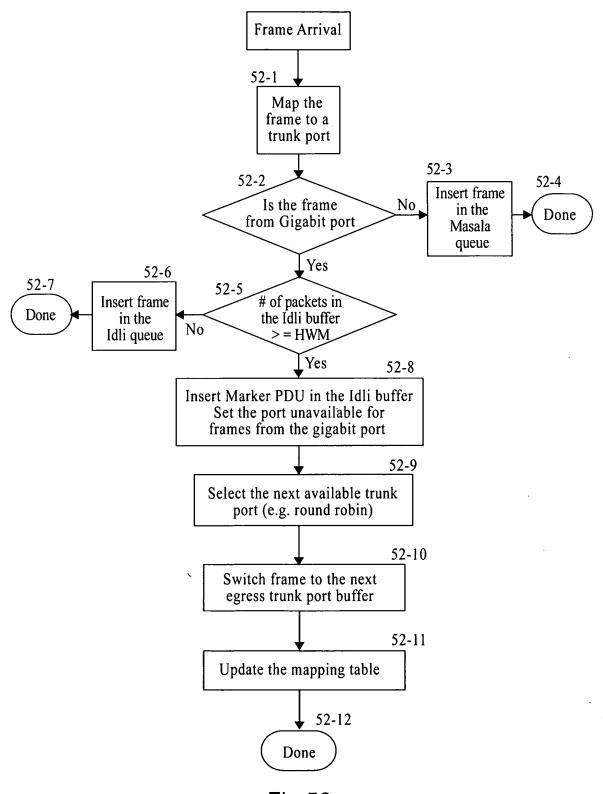
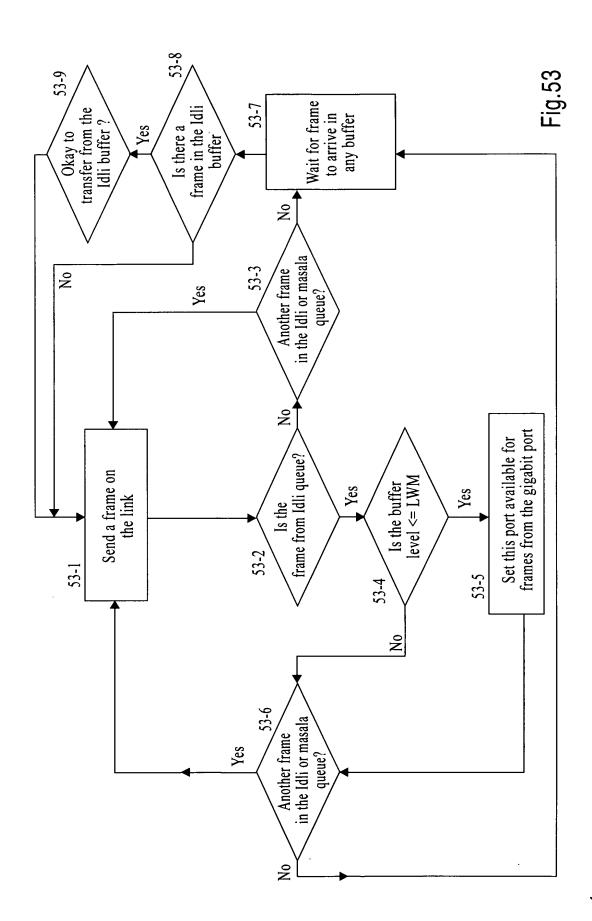


Fig.52



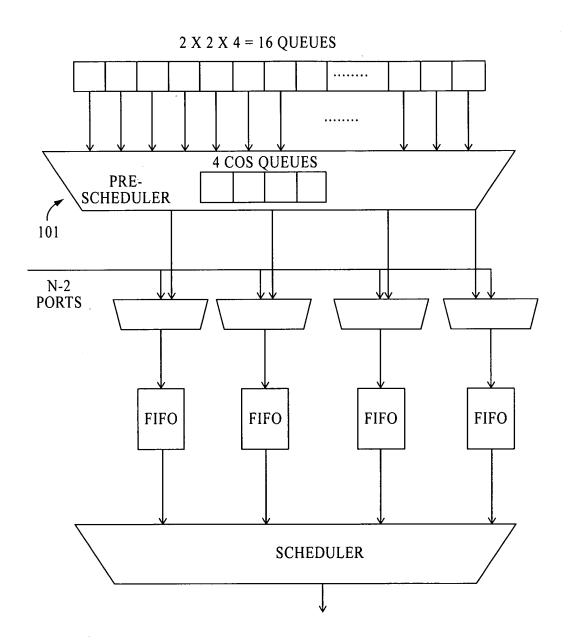
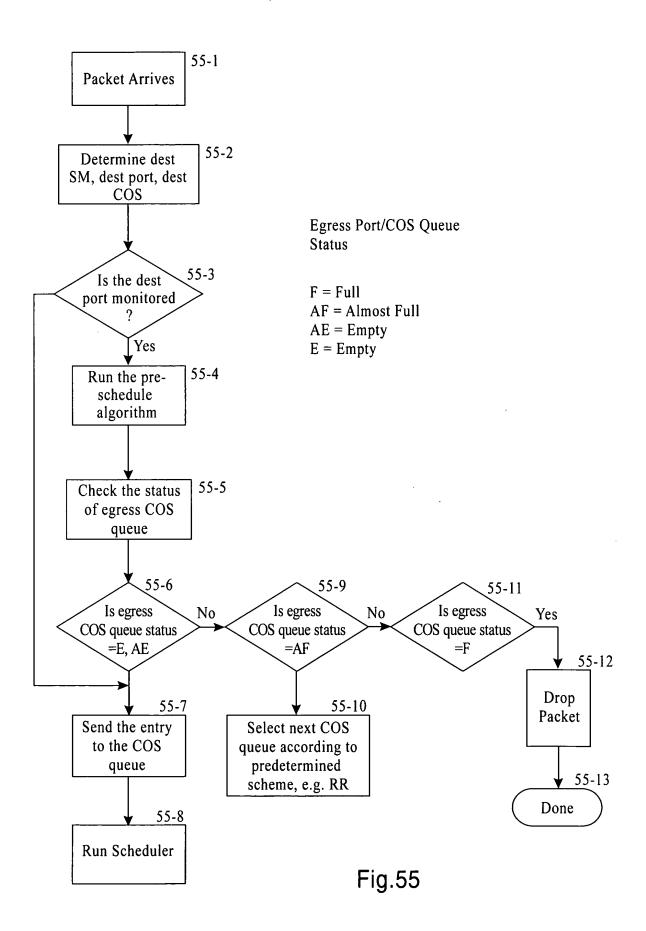


Fig.54



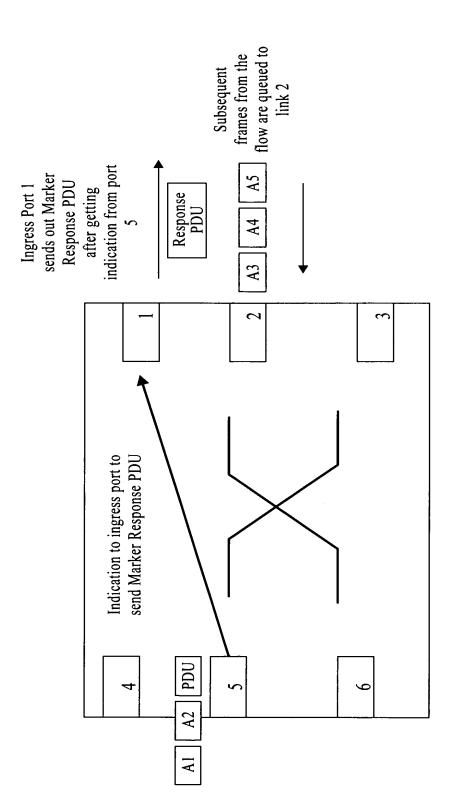


Fig.56